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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,597	07/17/2003	Seiji Hachisuka	1720.1003	9291
21171 STAAS & HAI	7590 02/05/2007 LSEY LLP	EXAMINER		
SUITE 700		DEB, ANJAN K		
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
	.,		2858	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/05/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/620,597	HACHISUKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Anjan K. Deb	2858				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 26 De	Responsive to communication(s) filed on <u>26 December 2006</u> .					
·						
3) Since this application is in condition for allowar						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-29</u> is/are pending in the application.						
4a) Of the above claim(s) <u>2-10,12-26</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	· ·					
6)⊠ Claim(s) <u>1,11,27</u> is/are rejected.	,— · · · ——					
7) Claim(s) is/are objected to.	• • •					
,	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r					
10)⊠ The drawing(s) filed on <u>17 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ⊠ All b) ☐ Some * c) ☐ None of:	a have been received					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No.					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
•						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) [_] Interview Summar Paper No(s)/Mail I					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal					
Paper No(s)/Mail Date <u>See Continuation Sheet.</u> 6) Other:						

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :7/17/03,11/6/03,2/27/04,2/16/05,9/19/05,

ANJAN DEB PRIMARY EXAMINER

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 1,11 and 27 in the reply filed on 12/26/2006 is acknowledged.

Claims 2-10, 12-26 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to nonelected groups (II, III) of invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 12/26/2006.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 11, 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Holmquest (US 5,619,105 A).

Re claim 1, Holmquest discloses current detection method of an inverter (Fig. 1) that converts DC input into AC output and supplies the AC output to a load (fluorescent lamps) (column 2 lines 59-63) comprising: a step that detects change in a circuit current of said inverter through the medium of the magnetic flux change (magnetically detecting)(column 3 line 41) due to the change of said circuit current caused by discharge (arc)(column 3 line 37-39).

Re claims 11 and 27, Holmquest discloses current detection method of an inverter (Fig. 1) that converts DC input into AC output and supplies the AC output to a load (fluorescent lamps) (column 2 lines 59-63) comprising: a step that detects change in a circuit current of said inverter through the medium of the magnetic flux change (magnetically detecting)(column 3 line 41) due to the change of said circuit current caused by discharge (arc)(column 3 line 37-39) and a step that detects based on a result of a detection of the change in said circuit current whether or not anomaly exists in a current route including said load, since Holmquest discloses detecting an anomaly (arcing) in a current route including the load by detecting (passing) only the high frequency RF signals resulting from arcing (column 3 lines 63 and 64).

4. Claims 1, 11, 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Parker et al. (US 5,892,646 A).

Re claims 1, 11, 27 Parker et al. disclosed magnetically coupled current sensing circuit 64,66 for detecting circuit anomaly (ground fault detection) including inverter 52 for supplying high-frequency current to neon lamp load 62 (Fig. 4B) including a step of detecting based on a result of a detection of the change in said circuit current whether or not anomaly exists in a current route including said load (column 2 lines 50-63).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Moisin et al. (US 5,583,402 A) disclosed magnetically coupled current sensing circuit (current transformer) 26 for an inverter (Q7, Q8) for supplying lamp load R_L (Fig. 1,6B).

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Miki et al. (US 5,563,777 A) discloses magnetically coupled current detecting circuit 52 for detecting circuit anomaly (column 3 lines 24-52) for an inverter supplying AC power to discharge lamp load 5 (Fig. 1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is 571-272-2228. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew H. Hirshfeld can be reached at (571) 272-2168.

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1/28/07